

# PCAL100 Temperature Calibrator

**Enables precise measurement and sourcing of temperature, voltage, and resistance parameters in a single tool**

## Features:

- High Precision:** Achieve accurate results with source and measure accuracy up to 0.05%, ensuring reliable data in critical applications
- Multi-sensor capability:** Measure and source 11 thermocouple types and 5 RTD types
- Adjustable Temperature Compensation:** ensures accurate readings across different environments
- Multi-Wire Resistance Measurement:** Conduct 2-, 3-, and 4-wire resistance measurements along with thermal resistance (RTD)
- Built-in functions:** Flashlight, Auto Power Off, Low Battery Indicator
- Traceable Calibration Assurance:** optional model complete with a Certificate of Traceability to N.I.S.T
- Complete with:** test leads, a thermocouple adapter, (3) AA batteries, and a latch key for easy battery replacement



## Specifications

Measurement	Range (resolution)	
Thermocouples	R,S,K,E,J,T,N,B,A,C,D	±(0.05%)
RTDs	Pt100-385/Pt200-385	±(0.05%)
	Pt500-385/Pt1000-385/CU50	±(0.05%)
DC Voltage	100mV/1V/30V (0.01mV)	±(0.05%)
Resistance	500Ω/5000Ω (0.01Ω)	
Continuity	≤50Ω (beeper)	
Source	Range (resolution)	
Thermocouples	R,S,K,E,J,T,N,B,A,C,D	±(0.05%)
RTDs	Pt100-385/Pt200-385	±(0.05%)
	Pt500-385/Pt1000-385/CU50	±(0.05%)
DC Voltage	100mV/1V (0.01mV)	±(0.05%)
Resistance	4000Ω/40000Ω (0.1Ω)	
Power	(3) AA batteries (included)	
Dimensions / Weight	7 x 3.5 x 2" (178 x 89 x 51mm) / 1lbs (454g)	

## Applications:

The PCAL100 Temperature Calibrator is a versatile tool suitable for a wide range of applications across industries where accurate temperature, voltage, and resistance measurements are essential. Here are some specific applications:

- Industrial Maintenance and Calibration**
- HVAC System Testing and Calibration**
- Laboratory Research and Development**
- Quality Control in Manufacturing**
- Automotive Diagnostics**
- Food Industry Compliance**
- Pharmaceutical Process Validation**
- Energy Management Systems**
- Environmental Monitoring**
- Educational Training**

## Ordering Information:

PCAL100      Temperature Calibrator  
PCAL100-NIST      PCAL100 including Certificate of Traceability to NIST

